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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/675,874	09/30/2003	Howard Bernstein	17976-0006	6790	
29052 7590 03/20/2009 SUTHERLAND ASBILL & BRENNAN LLP 999 PEACHTREE STREET, N.E.			EXAM	EXAMINER	
			SOROUSH, ALI		
ATLANTA, GA 30309			ART UNIT	PAPER NUMBER	
			1616		
			MAIL DATE	DELIVERY MODE	
			03/20/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/675.874 BERNSTEIN ET AL. Office Action Summary Examiner Art Unit ALI SOROUSH 1616 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 November 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-12 and 14-56 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-12 and 14-56 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date 11252008.

Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Acknowledgement of Receipt

Applicant's response filed on 11/25/2008 to the Office Action mailed on 06/05/2008 is acknowledged.

Status of the Claims

Claim 1 and 50 are currently amended and claim 13 is cancelled. Therefore, claims 1-12 and 14-56 are currently pending examination for patentability.

Rejections and/or objections not reiterated from the previous Office Action are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set of rejections and/or objections presently being applied to the instant application.

New Grounds of Rejection

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant does not have support in the specification for the newly claim limitation "having voids defined by a structural material".

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9 recites the limitation "The formulation of claim 6, wherein the corticosteroid is" in line 1. There is insufficient antecedent basis for this limitation in the claim.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-10, 14-21, 25, 26, 27, and 31-53 are rejected under 35 U.S.C. 102(a) as being anticipated by Weers et al. (US Patent 6309623 B1, Published 10/30/2001).

Weers et al. teach a stabilized dispersions for the delivery of a bioactive agent to the respiratory tract of a patient, wherein the dispersion comprises a plurality of perforated microstructures dispersed in a suspension medium to be administered to the lung of a patient using a metered dose inhaler. (See abstract). The perforated microstructures comprise at least one bioactive agent, have a geometric diameter between 1 and 3 microns, and at 30% permeable by the suspension medium. (See column 40, claim 1 and column 41, claim 23). The microstructure comprise a surfactant which is preferably a phospholipid. (See column 41, claims 6, 10 and 12). The bioactive agent is selected from the group consisting of antiallergis, bronchodilators, antibiotics, antineoplastics, steroids, proteins, peptides, and combinations thereof. (See column 45, claim 86). In a preferred embodiment hollow porous particles of beclomethasone

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dipropionate (BDP) are prepared by forming an emulsion comprising 74 mg of BDP, 500mg of egg phosphotidylcholine, 7 mg of polaxmer and 15 mg of sodium oleate in methanol and spray drying the emulsion to form free flowing white powder of BDP particles. (See column 33, Lines 25-58). In another preferred embodiment hollow porous particles of triamcinolone acetonide (TAA) are prepared by forming an emulsion comprising 100 mg of TAA, 560mg of egg phosphotidylcholine, 13 mg of polaxmer and 25 mg of sodium oleate in methanol and spray drying the emulsion to form free flowing white powder of TAA particles. (See column 33, Lines 60-67 and column 34, Lines 1-25). The structural matrix can further comprise synthetic or natural polymers such as polylactides and polylactide-co-glycolides to tailor the delivery profile of respitory dispersion to optimize the effectiveness of the bioactive agent. (See column 18, Lines 10-23). Additional excipients may be added to the aerosol formulation to improve drug delivery and deposition, shelf-life and patient acceptance, such excipients include mannitol, sorbitol, lactose, and trehalose, (See column 18, Lines 23-49). With regard to the instantly claimed limitations on the duration of the drug release (2 to 24 hours), it is the Examiners position that since the formulation of Weers et al. is structurally indistinguishable from the instant claims the formulation of Weers et al. would inherently have the same release profile. For the forgoing reasons the instant claims are anticipated.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Applicant Claims
- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue; and resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness
- 1. Claims 11, 12, 22-24, 28-30, and 54-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weers et al. (US Patent 6309623 B1, Published 10/30/2001).

Applicant Claims

Applicant claims a sustained release pharmaceutical formulation for delivery comprising a porous microparticle comprising a pharmaceutical agent dispersed in a hydrophobic matrix of polylactide or polylactide-co-gylcolide and further comprising a bulking agent.

Determination of the Scope and Content of the Prior Art (MPEP §2141.01)

The teachings of Weers et al. are discussed above.

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Ascertainment of the Difference Between Scope the Prior Art and the Claims

(MPEP \$2141.012)

Weers et al. does anticipate a composition comprising polactide or polylactideco-glycolide and further comprising a bulking agent. Weers et al. does make such a composition obvious.

Finding of Prima Facie Obviousness Rational and Motivation (MPEP §2142-2143)

It would have been obvious to one of ordinary skill in the art to add polylactide or polylactide-co-glycolide and one of mannitol, sorbitol, lactose, and trehalose. One would have been motivated to so Weers et al. teach that one could either a synthetic polymer in order to optimize the effectiveness of the bioactive agent. Weers et al further teach that the addition of mannitol, sorbitol, lactose, or trehalose is useful to improve drug delivery and deposition, shelf-life and patient acceptance. For the foregoing reasons the instant invention would have been obvious to one of ordinary skill in the art at the time of the instant invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Soroush whose telephone number is (571) 272-9925. The examiner can normally be reached on Monday through Thursday 8:30am to 5:00pm E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number Application/Control Number: 10/675,874

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for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ali Soroush Patent Examiner Art Unit: 1616

/Johann R Richter/

Supervisory Patent Examiner, Art Unit 1616